

Storm Data and Unusual Weather Phenomena - March 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				

(IA-Z008) MITCHELL, (IA-Z009) HOWARD, (IA-Z018) FLOYD

03/01/13 00:00 CST	0	Drought
03/31/13 23:59 CST	0	

The extreme drought conditions ended across northeast Iowa over the first half of March. Despite these improvements, all or parts of Floyd, Howard and Mitchell Counties were still in a severe drought. Snowfall amounts average 14 to 18 inches with 2.5 to 3 inches of liquid precipitation in the counties affected by the drought. Enough of this moisture was absorbed by the soil for the improvements to occur.

(IA-Z008) MITCHELL, (IA-Z009) HOWARD, (IA-Z010) WINNESHIEK, (IA-Z011) ALLAMAKEE, (IA-Z019) CHICKASAW, (IA-Z029) FAYETTE, (IA-Z030) CLAYTON

03/04/13 02:00 CST	0	Heavy Snow
03/05/13 16:00 CST	0	

A slow moving storm system tracked from the Dakotas into the Ohio River Valley from March 4th through the 6th. This system brought two rounds of snow to the region. The first round hit during the morning of the 4th and dropped up to 3 inches of snow. The second and heavier round, dumped an additional 4 to 8 inches during the evening of the 4th into the morning of the 5th. All together from the two rounds of snow, most of northeast Iowa received between 5 and 9 inches of snow. The highest reported total was 9.3 inches in Clermont (Fayette County).

(IA-Z008) MITCHELL, (IA-Z009) HOWARD, (IA-Z018) FLOYD

03/10/13 17:45 CST	0	Winter Storm
03/11/13 11:30 CST	0	

CLAYTON COUNTY --- 0.6 N GARBER [42.74, -91.27], 0.9 NE GARBER [42.74, -91.26], 1.1 NNE GARBER [42.74, -91.26], 1.1 NE GARBER [42.74, -91.26], 0.9 NE GARBER [42.74, -91.26], 0.6 NNE GARBER [42.74, -91.27], 0.5 N GARBER [42.74, -91.27]

03/10/13 19:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/11/13 18:30 CST	0	Source: River/Stream Gage

Runoff from snow melt and heavy rains pushed the Turkey River out of its banks near Garber. The river crested almost four feet above the flood stage at 20.76 feet.

CLAYTON COUNTY --- 0.4 SSW ELKADER [42.84, -91.40], 0.5 SSE ELKADER [42.84, -91.40], 0.6 SSE ELKADER [42.84, -91.40], 0.6 S ELKADER [42.84, -91.40], 0.5 SSW ELKADER [42.84, -91.40], 0.5 SW ELKADER [42.84, -91.41]

03/10/13 19:15 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/11/13 12:15 CST	0	Source: River/Stream Gage

Runoff from snow melt and heavy rains pushed the Turkey River out of its banks near Elkader. The river crested almost two feet above the flood stage at 13.98 feet.

ALLAMAKEE COUNTY --- 3.4 S CHESTER [43.42, -91.51], 3.5 S CHESTER [43.42, -91.51], 3.0 S CHESTER [43.43, -91.52], 3.0 S CHESTER [43.43, -91.52]

03/11/13 00:15 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/11/13 03:45 CST	0	Source: River/Stream Gage

Runoff from snow melt and heavy rains pushed the Upper Iowa River out of its banks near Dorchester. The river crested less than a half foot above the flood stage at 14.21 feet.

Almost a foot of heavy wet snow was dumped on parts of northeast Iowa from a winter storm on March 10th and 11th. The storm responsible for this snow moved northeast from the Kansas City region to Lake Michigan. Along with the snow, the system also produced northwest winds of 15 to 20 mph that created some drifting of the snow. Numerous schools were either closed or utilized a two hour delay on the 11th. Snowfall amounts of 5 to 11 inches were common and the highest reported total was 11 inches in Osage (Mitchell County). Ahead of the snowfall, the storm produced up to 1.5 inches of rain with temperatures around 40 degrees. This produced abundant run off from the rain and melting snow that was not able to penetrate into the ground due to frost depths up to 3 feet. The run off flooded basements and caused roads to be covered with standing water.

MINNESOTA, Southeast

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MN-Z079) WABASHA, (MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z088) WINONA, (MN-Z094) MOWER, (MN-Z095) FILLMORE				
	03/01/13 00:00 CST		0	Drought
	03/31/13 23:59 CST		0	
<p>The extreme drought conditions ended across southeast Minnesota over the first half of March along with the severe drought in Fillmore County. Despite these improvements, all or parts of Dodge, Mower, Olmsted, Wabasha and Winona Counties were still in a severe drought. Snowfall amounts average 16 to 20 inches with 2.5 to 3 inches of liquid precipitation in the counties affected by the drought. Enough of this moisture was absorbed by the soil for the improvements to occur. The Minnesota Department of Natural Resources reported an increase in irrigation permit requests in 2012. Normally the DNR handles around 45 permits annually, while in 2012, those request jumped to 250.</p>				
(MN-Z079) WABASHA, (MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z088) WINONA, (MN-Z094) MOWER, (MN-Z095) FILLMORE, (MN-Z096) HOUSTON				
	03/04/13 02:30 CST		0	Heavy Snow
	03/05/13 14:30 CST		0	
<p>A slow moving storm system tracked from the Dakotas into the Ohio River Valley from March 4th through the 6th. This system brought two rounds of snow to the region. The first round hit during the morning of the 4th and dropped up to 3 inches of snow. The second and heavier round, dumped an additional 4 to 8 inches during the evening of the 4th into the morning of the 5th. All together from the two rounds of snow, most of southeast Minnesota received between 5 and 11 inches of snow. The highest reported total was 10.7 inches east of Spring Valley (Fillmore County).</p>				
(MN-Z079) WABASHA, (MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z088) WINONA, (MN-Z094) MOWER, (MN-Z095) FILLMORE				
	03/10/13 16:10 CST		0	Winter Storm
	03/11/13 12:30 CST		0	
<p>Up to a foot of heavy wet snow was dumped on much of southeast Minnesota from a winter storm on March 10th and 11th. The storm responsible for this snow moved northeast from the Kansas City region to Lake Michigan. Along with the snow, the system also produced northwest winds of 15 to 20 mph that created some drifting of the snow. Numerous schools were either closed or utilized a two hour delay on the 11th. Snowfall amounts of 7 to 12 inches were common and the highest reported total was 12.5 inches east of Spring Valley (Fillmore County). Around 1,900 customers across southeast Wabasha, Winona and Fillmore Counties lost power in the early morning hours of March 11th. Ahead of the snowfall, the storm produced up to 1.5 inches of rain with temperatures in the upper 30s. This produced abundant run off from the rain and melting snow that was not able to penetrate into the ground due to frost depths up to 3 feet. The run off flooded numerous basements and caused roads to have minor washouts or be covered with standing water.</p>				
OLMSTED COUNTY --- 3.1 N BYRON [44.07, -92.65], 3.2 SSW GENOA [44.08, -92.65], 3.3 N BYRON [44.08, -92.65], 3.2 N BYRON [44.08, -92.65], 3.0 N BYRON [44.07, -92.65]				
	03/30/13 12:00 CST		0	Flood (due to Ice Jam)
	03/31/13 00:00 CST		0	Source: Emergency Manager
<p>An ice jam on the South Fork of the Zumbro River inundated Oxbow County Park north of Byron. Playground equipment, picnic areas and ball fields were covered with water.</p>				
WINONA COUNTY --- 4.9 NNW ST CHARLES [44.04, -92.11], 4.8 NNW ST CHARLES [44.04, -92.10], 4.8 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.11], 4.9 NNW ST CHARLES [44.04, -92.11]				
	03/30/13 14:00 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/30/13 22:00 CST		0	Source: River/Stream Gage
<p>Runoff from snow melt pushed the Whitewater River out of its banks in the Whitewater State Park. The river crested less than a half foot above the flood stage at 13.81 feet.</p>				
WABASHA COUNTY --- 0.5 NNW ZUMBRO FALLS [44.29, -92.43], 0.3 NE ZUMBRO FALLS [44.28, -92.43], 0.2 NE ZUMBRO FALLS [44.28, -92.43], 0.4 NNW ZUMBRO FALLS [44.29, -92.43]				
	03/31/13 04:30 CST		0	Flood (due to Heavy Rain / Snow Melt)
	03/31/13 23:59 CST		0	Source: River/Stream Gage
<p>Runoff from snow melt pushed the Zumbro River out of its banks near Zumbro Falls. The river crested almost a foot and a half above the flood stage at 19.3 feet.</p>				
<p>As temperatures warmed late in the month of April, abundant run off from melting snow combined with ice jams to produced some flooding on southeast Minnesota rivers. The South Fork of the Zumbro River shot up almost 7 feet in one day from an ice jam and inundated Oxbow Park north of Byron (Olmsted County). Other rivers that experienced flooding were the Whitewater River in the Whitewater State Park (Winona County) and the Zumbro River near Zumbro Falls (Wabasha County).</p>				

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WISCONSIN, Southwest

(WI-Z017) TAYLOR, (WI-Z032) BUFFALO, (WI-Z033) TREMPLEALEAU

03/01/13 00:00 CST	0	Drought
03/31/13 23:59 CST	0	

Snowfall amounts averaged 14 to 20 inches with 1.75 to 3 inches of liquid precipitation across the western Wisconsin counties still affected by the drought. With the frozen ground, little if any of the precipitation was absorbed by the soil. No changes in the drought conditions occurred and a severe drought remained across parts of Buffalo, Taylor and Trempealeau Counties.

(WI-Z032) BUFFALO, (WI-Z033) TREMPLEALEAU, (WI-Z034) JACKSON, (WI-Z041) LA CROSSE, (WI-Z042) MONROE, (WI-Z053) VERNON, (WI-Z054) CRAWFORD, (WI-Z055) RICHLAND, (WI-Z061) GRANT

03/04/13 22:00 CST	0	Heavy Snow
03/05/13 19:30 CST	0	

A slow moving storm system tracked from the Dakotas into the Ohio River Valley from March 4th through the 6th. This system dumped between 4 and 8 inches of snow, with some locally higher amounts around 10 inches, during the evening of the 4th into the morning of the 5th. The highest reported total was 11.1 inches in Alma (Buffalo County).

(WI-Z053) VERNON

03/07/13 12:00 CST	1	0	Cold/Wind Chill
03/08/13 12:00 CST		0	

Direct Fatalities: F93OU

An elderly western Wisconsin woman wandered away from a care facility in Viroqua (Vernon County) and died of hypothermia from exposure to the cold. The automated weather observing equipment at the Viroqua airport on March 7th reported temperatures in the teens with an overnight low of 12 degrees.

GRANT COUNTY --- 0.1 ENE BURTON [42.72, -90.82], 0.3 ENE BURTON [42.72, -90.81], 0.4 ENE BURTON [42.72, -90.81], 0.2 NE BURTON [42.72, -90.82], 0.1 NNE BURTON [42.72, -90.82], 0.5 SW BURTON [42.71, -90.83], 0.5 SSW BURTON [42.71, -90.83]

03/10/13 01:45 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/11/13 10:45 CST	0	Source: River/Stream Gage

Runoff from snow melt and heavy rains pushed the Grant River out of its banks twice near Burton. The highest crest on the river was over two and a half feet above the flood stage at 20.73 feet.

GRANT COUNTY --- 2.2 NE ROCKVILLE [42.74, -90.64], 2.5 E ROCKVILLE [42.73, -90.63], 2.3 E ROCKVILLE [42.72, -90.63], 2.1 NE ROCKVILLE [42.74, -90.65]

03/10/13 18:15 CST	0	Flood (due to Heavy Rain / Snow Melt)
03/11/13 03:30 CST	0	Source: River/Stream Gage

Runoff from snow melt and heavy rains pushed the Platte River out of its banks near Rockville. The river crested almost a foot above the flood stage at 9.98 feet.

(WI-Z017) TAYLOR, (WI-Z029) CLARK, (WI-Z032) BUFFALO, (WI-Z033) TREMPLEALEAU, (WI-Z034) JACKSON

03/10/13 19:00 CST	10K	Winter Storm
03/11/13 15:30 CST	0	

(WI-Z053) VERNON

03/10/13 20:15 CST	10K	Winter Weather
03/11/13 04:15 CST	0	

One person was killed in a car accident after the driver lost control on snow and ice covered roads near Viroqua (Vernon County) on the morning of the March 11th. Almost a foot of heavy wet snow fell on parts of western Wisconsin from a winter storm on March 10th and 11th. The storm responsible for this snow moved northeast from the Kansas City region to Lake Michigan. Along with the snow, the system also produced northwest winds of 15 to 20 mph that created some drifting of the snow. Numerous schools were either closed or utilized a two hour delay on the 11th. Snowfall amounts of 4 to 10 inches were common and the highest reported total was 10 inches

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in Longwood (Clark County). Around 600 customers across Buffalo and Trempealeau Counties lost power because of the storm from the late evening of the 10th through the morning of the 11th. Ahead of the snowfall, the storm produced up to 1.5 inches of rain with temperatures in the upper 30s. This produced abundant run off from the rain and melting snow that was not able to penetrate into the ground due to frost depths up to 3 feet. The run off flooded basements and caused numerous roads to be covered with standing water.				